

**INTEGRALLY FORMED RECTIFIER FOR INTERNAL
ALTERNATOR REGULATOR (IAR) STYLE ALTERNATOR**

Abstract of the Disclosure

A rectifier and method for forming the rectifier for an internal alternator regulator (IAR) style alternator includes an integrally formed
5 rectifier body having a ground engaging surface that mounts within the alternator and is grounded through an automotive grounding system. A diode receiving cavity is opposite the ground engaging surface. A plurality of negative diodes are secured within the diode
10 receiving cavity and grounded thereto. An insulated conductor substrate is positioned in the diode receiving cavity and has a conductive surface that is insulated from the rectifier body and negative diodes. Positive diodes are secured on the insulated conductive
15 substrate. A terminal connector interconnects negative and positive diodes in a preferred bridge rectifier configuration.